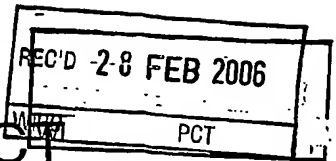


# PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY



To:

see form PCT/ISA/220

2/3

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY  
(PCT Rule 43bis.1)

Date of mailing  
(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference  
see form PCT/ISA/220

**FOR FURTHER ACTION**  
See paragraph 2 below

International application No.  
PCT/SE2005/001157

International filing date (day/month/year)  
13.07.2005

Priority date (day/month/year)  
25.08.2004

International Patent Classification (IPC) or both national classification and IPC  
H04L12/24

Applicant  
SMARTTRUST AB

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☒ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:



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Lievens, K

Telephone No. +31 70 340-4413



**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.  
PCT/SE2005/001157

**Box No. I Basis of the opinion**

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
  - ☐ This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
  - a. type of material:
    - ☐ a sequence listing
    - ☐ table(s) related to the sequence listing
  - b. format of material:
    - ☐ in written format
    - ☐ in computer readable form
  - c. time of filing/furnishing:
    - ☐ contained in the international application as filed.
    - ☐ filed together with the international application in computer readable form.
    - ☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**Box No. II Priority**

1. ☒ The validity of the priority claim has not been considered because the International Searching Authority does not have in its possession a copy of the earlier application whose priority has been claimed or, where required, a translation of that earlier application. This opinion has nevertheless been established on the assumption that the relevant date (Rules 43bis.1 and 64.1) is the claimed priority date.
2. ☐ This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43bis.1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.
3. Additional observations, if necessary:

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.  
PCT/SE2005/001157

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**Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

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**1. Statement**

Novelty (N)	Yes: Claims	5-8,10,15-17
	No: Claims	1-4,9,11-14
Inventive step (IS)	Yes: Claims	
	No: Claims	1-17
Industrial applicability (IA)	Yes: Claims	1-17.
	No: Claims	

**2. Citations and explanations**

**see separate sheet**

**Re Item V.**

- 1 Reference is made to the following documents:

D1 : ADWANKAR S ET AL: "Universal manager: seamless management of enterprise mobile and nonmobile devices" MOBILE DATA MANAGEMENT, PROCEEDINGS. 2004 IEEE INTERNATIONAL CONFERENCE ON BERKELEY, CA, USA 19-22 JAN. 2004, pages 320-331, ISBN: 0-7695-2070-7

D2: ETSI: "Digital cellular telecommunications system (Phase 2+); Security Mechanisms for the SIM application toolkit; Stage 2 (GSM 03.48 version 8.3.0 Release 1999)" ETSI TS 101 181 V8.3.0, [Online] August 2000, pages 1-34, France

- 2 The subject matter of claims 1-4,9,11-14 is not novel in the sense of Article 33(2) PCT and the subject matter of claims 5-8,10,15-17 does not involve an inventive step in the sense of Article 33(3) PCT.

**2.1 INDEPENDENT CLAIM 1**

The document D1 discloses in terms of claim 1 (the references in parenthesis referring to D1):

Method for device management by managing objects in devices in a device management system in a mobile network infrastructure (abstract; par. 2 "managed objects"; par. 3.5 Table 2 "Data Model"), the system comprising a first server with a first device management application using a first protocol, a second server with a second device management application using a second protocol, an interface between them and a device with objects to be managed (par. 2 "enterprise management system (EMS)" "The multi-protocol gateway acts as a proxy and represents the mobile device in the enterprise network" "TM server", Figure 1)

the method comprising the following steps in combination:

- a) the first management application initiating a device management session with the interface in order to manage the objects in said device (abstract; par. 2, Figure 1; par. 5 "route management action to multi-protocol gateway", figure 7),
- b) the interface translating the objects to be managed into a form understood by the second management application and invoking management operations to be made by the second management application (abstract; par. 2, Figure 1; par. 5

"protocol conversion" "maps SNMP OID to the corresponding SyncML management tree node", figure 7),

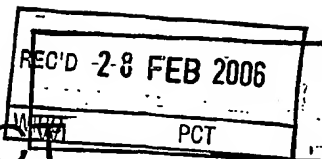
c) the first management application performing the management operations to said device (abstract; par. 2, Figure 1; par. 5, figure 7).

Since all the features of claim 1 are known in combination from document D1, the subject-matter of claim 1 is not new (Article 33(2) PCT).

- 2.2 Independent claim 12 is a representation of claim 1 in terms of a system. Therefore, the above arguments with respect to the lack novelty of the subject matter of claim 1 also apply to said claim, and the subject matter of said claim is also not novel (Article 33(2) PCT).
- 2.3 The additional features of dependent claims 2-4, 9, 11, 13 and 14 are also known from prior art document D1 (see abstract; par. 2, Figure 1; par. 5, figure 7). Therefore, the subject matter of said claims is also not novel (Article 33(2) PCT).
- 2.4 The additional features of dependent claims 5-8, 10, 15-17 are a matter of normal design procedure for a man skilled in the art of device management in mobile networks. In particular, document D1 is considered closest prior art and describes a universal manager whereby a conventional management protocol is chosen as the unified management platform (see D1, last but one paragraph of section 1 (Introduction)) and whereby a multi-protocol gateway provides "support for diverse terminal management protocols" (see D1, last paragraph of section 2 (Architecture)). Selecting SyncML, described in section 3.5 of D1, in stead of SNMP as the unified management platform and selecting the remote management of files on the SIM of a mobile device (known for example from document D2, par. 1, 4 and 8-8.1) as one of the diverse terminal management protocols is considered to be an alternative choice which is equally likely, to the man skilled in the art of device management, as the protocol choices described in D1, especially because the advantages thus achieved can be readily contemplated in advance. Hence, it is considered that this alternative choice is obvious and does not produce any unexpected effect and is consequently non-inventive.
- Hence, the subject matter of dependent claims 5-8, 10, 15-17 does not involve an inventive step (Article 33(3) PCT).

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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)

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See paragraph 2 below

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International filing date (day/month/year)  
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International Patent Classification (IPC) or both national classification and IPC  
H04L12/24

Applicant  
SMARTTRUST AB

**1. This opinion contains indications relating to the following items:**

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For further options, see Form PCT/ISA/220.

**3. For further details, see notes to Form PCT/ISA/220.**

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Lievens, K

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**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.  
PCT/SE2005/001157

**Box No. I Basis of the opinion**

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  - a. type of material:
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3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
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3. Additional observations, if necessary:

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.  
PCT/SE2005/001157

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**Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

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**1. Statement**

Novelty (N)	Yes: Claims	5-8,10,15-17
	No: Claims	1-4,9,11-14
Inventive step (IS)	Yes: Claims	
	No: Claims	1-17
Industrial applicability (IA)	Yes: Claims	1-17.
	No: Claims	

**2. Citations and explanations**

**see separate sheet**

**Re Item V.**

- 1 Reference is made to the following documents:

D1 : ADWANKAR S ET AL: "Universal manager: seamless management of enterprise mobile and nonmobile devices" MOBILE DATA MANAGEMENT, PROCEEDINGS. 2004 IEEE INTERNATIONAL CONFERENCE ON BERKELEY, CA, USA 19-22 JAN. 2004, pages 320-331, ISBN: 0-7695-2070-7

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- 2 The subject matter of claims 1-4,9,11-14 is not novel in the sense of Article 33(2) PCT and the subject matter of claims 5-8,10,15-17 does not involve an inventive step in the sense of Article 33(3) PCT.

**2.1 INDEPENDENT CLAIM 1**

The document D1 discloses in terms of claim 1 (the references in parenthesis referring to D1):

Method for device management by managing objects in devices in a device management system in a mobile network infrastructure (abstract; par. 2 "managed objects"; par. 3.5 Table 2 "Data Model"), the system comprising a first server with a first device management application using a first protocol, a second server with a second device management application using a second protocol, an interface between them and a device with objects to be managed (par. 2 "enterprise management system (EMS)" "The multi-protocol gateway acts as a proxy and represents the mobile device in the enterprise network" "TM server", Figure 1) the method comprising the following steps in combination:

a) the first management application initiating a device management session with the interface in order to manage the objects in said device (abstract; par. 2, Figure 1; par. 5 "route management action to multi-protocol gateway", figure 7),

b) the interface translating the objects to be managed into a form understood by the second management application and invoking management operations to be made by the second management application (abstract; par. 2, Figure 1; par. 5

"protocol conversion" "maps SNMP OID to the corresponding SyncML management tree node", figure 7),  
c) the first management application performing the management operations to said device (abstract; par. 2, Figure 1; par. 5, figure 7).

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- 2.2 Independent claim 12 is a representation of claim 1 in terms of a system. Therefore, the above arguments with respect to the lack novelty of the subject matter of claim 1 also apply to said claim, and the subject matter of said claim is also not novel (Article 33(2) PCT).
- 2.3 The additional features of dependent claims 2-4, 9, 11, 13 and 14 are also known from prior art document D1 (see abstract; par. 2, Figure 1; par. 5, figure 7). Therefore, the subject matter of said claims is also not novel (Article 33(2) PCT).
- 2.4 The additional features of dependent claims 5-8, 10, 15-17 are a matter of normal design procedure for a man skilled in the art of device management in mobile networks. In particular, document D1 is considered closest prior art and describes a universal manager whereby a conventional management protocol is chosen as the unified management platform (see D1, last but one paragraph of section 1 (Introduction)) and whereby a multi-protocol gateway provides "support for diverse terminal management protocols" (see D1, last paragraph of section 2 (Architecture)). Selecting SyncML, described in section 3.5 of D1, in stead of SNMP as the unified management platform and selecting the remote management of files on the SIM of a mobile device (known for example from document D2, par. 1, 4 and 8-8.1) as one of the diverse terminal management protocols is considered to be an alternative choice which is equally likely, to the man skilled in the art of device management, as the protocol choices described in D1, especially because the advantages thus achieved can be readily contemplated in advance. Hence, it is considered that this alternative choice is obvious and does not produce any unexpected effect and is consequently non-inventive.  
Hence, the subject matter of dependent claims 5-8, 10, 15-17 does not involve an inventive step (Article 33(3) PCT).